What is Claimed is:

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- 1. A culture device for the propagation or storage of microorganisms, said device comprising a self-supporting, waterproof substrate and a cover sheet, wherein a gelling agent is contained on said self-supporting substrate, and wherein said self-supporting substrate and said cover sheet comprise positioning structures.
- 2. The culture device of claim 1, wherein said positioning structures are holes, slits, slots, beveled edges, notches, or raised structures.
- 3. The culture device of claim 1, said culture device further comprising a barcode label on a surface of said culture device.
 - 4. The culture device of claim 1, wherein said cover sheet is transparent.
- 5. The culture device of claim 1, wherein said self-supporting substrate further comprises a spacer.
- 6. The culture device of claim 1, wherein said self-supporting substrate further comprises a culture medium.
 - 7. The culture device of claim 1, wherein said cover sheet further comprises a gelling agent.
- 25 8. The culture device of claim 1, wherein said cover sheet further comprises a reinforcement layer.
 - 9. The culture device of claim 8, wherein said reinforcement layer is selected from the group consisting of a foam, a film, or a non-woven material.
 - 10. The culture device of claim 1, wherein said device further comprises an indicator and a corresponding inducer.

- 11. The culture device of claim 1, wherein said device further comprises two chromogenic indicators providing different colors for differentiating microorganisms.
- 12. A culture device for the propagation or storage of microorganisms comprising first and second layers, said first and second layers comprising a gelling agent, said first and second layers further comprising positioning structures, and wherein said first and second layers are separable from each other.
- 13. A system for harvesting cells from a colony on a thin film culture device having positioning structures, said system comprising:
 - a) a scanner;

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- b) a processing unit; and
- c) a picking apparatus, wherein said scanner provides an image file to said processing unit, wherein said processing unit provides the position of said colony relative to said positioning structures, and wherein said picking apparatus harvests said cells from said colony based on said position.
- 14. The system of claim 13, wherein said picking apparatus has an orienting unit, said orienting unit having receiving structures adapted to receive corresponding positioning structures in said culture device.
- 15. The system of claim 14, wherein said orienting unit further comprises a compliant pad.
- 16. The system of claim 13, wherein said picking apparatus comprises a liquid handling tip.
 - 17. A picking apparatus for harvesting cells from a colony on a thin film culture device having positioning structures, said picking apparatus comprising:
- a) an orienting unit, wherein said orienting unit positions said colony relative to said positioning structures; and

- b) a picking arm, wherein said picking arm is programmed with the position of said colony relative to said positioning structures and is adapted to contact cells of said colony based on said position.
- 5 18. The apparatus of claim 17, said orienting unit having receiving structures adapted to receive corresponding positioning structures in said culture device.
- 19. A method for harvesting cells from a colony on a culture device, said method comprising:
 - a) providing a thin film culture device having positioning structures;
 - b) obtaining an image of said culture device;
 - c) processing said image to provide position of said colony relative to said positioning structures; and
 - d) contacting said cells with a picking apparatus based on said position of said colony to harvest said cells.
 - 20. The method of claim 19, wherein said picking apparatus is moved in at least one direction from the contact point to harvest said cells.
 - 21. The method of claim 19, wherein said picking apparatus is moved in at least two directions from the contact point to harvest said cells.
 - 22. The method of claim 19, wherein processing said image comprises:
 - a) identifying location of said positioning structures;
 - b) identifying location of said colony; and
 - c) calculating position of said colony relative to said positioning structures.

23. The method of claim 19, wherein processing said image comprises selecting a specific colony relative to said positioning structures.

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	24.	The	method	of claim	23,	wherein	said	selecti	ng a s	specific	colony
	comprises se	electing	a colony	having a	prede	etermined	l size o	compare	ed to a	contro	l colony.
5	25.	The	method	of claim	23,	wherein	said	selecti	ng a s	specific	colony
	comprises se	electing	a colony	having a	prede	etermined	l color	•			
	26	The		a.f. ala:	10		-1-4-				•
	26.			of claim	19,	wnerein	obtai	ning s	aid im	lage co	omprises
10	scanning said	a culture	e device	•							
10	27.	A co	mputer	readable	medi	um havii	ng ins	truction	ns the	reon ca	ausing a
	programmable processor to:										
		a)	displa	y an imag	e of a	thin filn	n cultu	ıre devi	ce hav	ing pos	sitioning
	structures on a display device;										
15		b)	differe	entiate pos	sition	ing struct	tures f	rom co	lonies	on said	d culture
	device;										
		c)	identi	fy location	of sa	aid positio	oning	structur	es;		
		d)	identi	fy location	of sa	id coloni	ies;				
		e)	calcul	ate positi	on of	said col	lonies	relativ	e to s	aid pos	sitioning
20	structures; an	nd									
•		f)	selecti	ng specifi	c col	onies.					
	28.	The c	compute	r readable	medi	ium of cl	aim 3	ნ. wher	ein sa	id med	ium is a
	28. The computer readable medium of claim 36, wherein said medium is a storage medium for storing instructions.										
25	ararage mean			.iou douon							
	29.	The c	ompute	readable	medi	ium of cl	aim 3	6 wher	ein sa	id med	ium is a
	transmission		-					o, which	CIII Sai	id illed	ium is a
	1141131111331011	mearan	i ioi tiui	isimtting .	said i	iisti uctioi	13.				
	30.	A cor	nputer r	eadable m	nediui	n having	an in	nage ste	ored th	nerein,	wherein
30	said image c	ontains	image d	ata repres	entati	ve of col	onies	on a thi	in film	culture	e device
	having positioning structures.										

31. A computer readable medium having data stored therein, wherein said data are the coordinates of colonies on a culture device relative to positioning structures on said culture device.